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Inspection of Pesticides, Pool Products and Pet Preparations—1984

By Lester Hankin

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION
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STATE

INSPECTION OF PESTICIDES, POOL PRODUCTS, AND PET PREPARATIONS--1984

Results of chemical analysis of 249 official samples of pesticides, pool products, and pet preparations collected during 1984 are presented in this Bulletin. All samples were collected by inspectors of the Connecticut Department of Environmental Protection except two fertilizers containing pesticides collected by inspectors of the Connecticut Department of Agriculture.

Table 1 shows individual samples representing 408 guarantees for active ingredients from 57 manufacturers. Following the names of the manufacturers are the brands of the products and the active ingredients. The percent guarantee is then shown followed by the percent found. Values preceded by an asterisk (*) are deficient in amount of active ingredient; values enclosed in brackets [] are in excess.

Two basic criteria are used to determine if samples are satisfactory. The first is that a sample can not be deficient or excessive in amount of active ingredient. Deficiencies and excesses are based on Laboratory Verification Guidelines established by the U.S. Environmental Protection Agency. Overall, 12.0% of the 249 samples were deficient in amount of at least one active ingredient and 1.6% were excessive in amount of at least one active ingredient. For 408 guarantees for active ingredient only 7.3% were deficient and 1.0% were excessive. The second criteria is that a sample is unsatisfactory if it contains an ingredient not listed on the label. All of the samples tested were satisfactory in this respect.

Table 2 summarizes the number of samples tested from each manufacturer, the number of guarantees for active ingredients, the number of deficiencies or excesses, and the average percent of guarantee.

Analyses were performed by M. Fuzesi, R. Hastings, and M. A. Illig. Samples were collected by M. Beott and D. Griswold. Pesticide laws are administered by the Commissioner of the Department of Environmental Protection.

Lester Hankin
Chief, Analytical Chemistry

Table 1. Analysis of Individual Samples

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Agway			Agway Vegetable Garden Dust		
Agway 25% Methoxychlor Spray			Malathion	5.6	6.30
Methoxychlor	25.0	24.5	Methoxychlor	5.0	4.90
Agway Amitrol-T			Captan & related cmpds.	7.0	7.60
Amitrole	21.6	21.9	Agway Weed & Brush Killer w/Ammate		
Agway Asparagus-Berry Weeder	4	4.1	Ammonium Sulfamate	46.5	49.4
Simazine			Bicep Liquid Fertilizer		
Agway Diazinon Insect Spray	25	25.7	Atrazine	0.351	0.315
Diazinon			Metolachlor	0.464	0.383
Agway Diazinon Insect Spray	25.0	24.60	Pennwalt Penncap M		
Diazinon			Methyl Parathion	20.9	21.5
Agway Dual Garden Orchard Spray					
Captan	14.2	15.7	Alina Chemical Corp.		
Malathion	7.5	8.0	Mr. Destroyer Roach & Ant Killer		
Methoxychlor	15.0	15.08	Pyrethrins	0.050	0.048
Agway Fruit Tree Spray			Piperonyl Butoxide	0.100	0.090
Captan N	11.35	11.15	MCK 264	0.166	0.144
Malathion	6.00	6.00	Chlorpyrifos	0.500	0.467
Methoxychlor	12.00	12.28			
Carbaryl	3.00	3.08			
Agway Garden Insect Spray w/Sevin			American Cyanamid Co./Household Products Div.		
Carbaryl	50	49.7	Pine Sol		
Agway Insect Spray with Malathion			Pine Oil	21.8	21.5
Malathion	55.0	54.2	Soap	11.3	13.2
Agway Lawn Weed Killer			Isopropanol	10.9	12.6
2,4-D	20.3	20.2			
Dicamba	1.9	2.0			
Agway Liquid Sevin 4F			Black Leaf Products Co.		
Carbaryl	42.6	43.2	Black Leaf 1% Rotenone Garden Dust	1	1.1
Agway Liquid Sevin 4F			Rotenone		
Agway Organic Garden Spray			Black Leaf 25% Methoxychlor Mosquito Insect Spray	25	24.50
Carbaryl	42.6	43.1	Methoxychlor		
Pyrethrins	1.0	1.04	Black Leaf 5% Sevin Garden Dust	5.0	5.30
Piperonyl Butoxide	10.0	9.6	Carbaryl		
Agway Swat II			Malathion	50	51.3
Tetramethrin	0.200	0.180	Black Leaf Lawn Weed Killer Spray		
Phenothrin	0.191	0.185	2,4-D(alkanolamine salts)	1.66	1.52
Agway Take Out Systemic Weed & Grass Killer			Dicamba(dimethyl amine salts)	0.31	0.32
Glyphosate	0.96	0.97	Black Leaf Rose & Flower Beauty Spray		
Agway Thiodan 50W			Pyrethrins	0.0255	0.0242
Endosulfan	50.	50.3	Rotenone	0.1280	0.1290
Agway Total Weed Killer			Captan	0.5035	0.5197
Prometon	1.6	1.62	Karathane	0.146	0.137
Agway Tree & Shrub Spray			Piperonyl Butoxide, tech.	0.2560	0.2688
Metasystox	6.0	6.7	Black Leaf Slug & Snail Killer		
Methoxychlor	5.0	4.6	Carbaryl	5.00	5.10
Kelthane	0.9	0.85	Metalddehyde	2.50	2.90

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Black Leaf Tomato & Vegetable Garden Dust Carbaryl	5.0	5.38	Ced-O-Products Corp. Ced-O-Flora Plant Spray	0.28	present#
Maneb	6.0	6.0	Borax	35.68	present#
Black Leaf Yard & Patio Fogger Spray Bomb			Kerosine		
Resmethrin	0.250	0.254			
Bonide Chemical Co. Bonide Bulb Dust			Chacon Chemical Corp. Chacon Repel Dog + Cat Repellent Carbamate (Ziram + Thiram)	2.50	2.75
Methoxychlor	5.0	4.84			
Thiram	10.0	9.88			
Bonide Captan 50%WP	50	50.6	Chevron Chemical Co./Ortho Div. Flea-B-Gon Flea Killer	0.250	0.235
Bonide Malathion 50%EC	50	49.76	Resmethrin		
Bonide Moletox II	2	2.7	Ortho Ant.Roach & Spider Killer	1.0	0.97
Zinc Phosphide	0.75	0.79	2-(1-Methylethoxy)phenylmethyl- carbamate	3.25	3.53
Bonide Rose & Floral Spray Bomb	0.50	0.325	Ortho Bug-Geta Snail & Slug Pellets	25	25.5
Carbaryl	0.50	0.60	Metaldehyde	25.0	24.7
Folpet	0.075	0.10	Ortho Diazinon Insect Spray	35.3	39.3
Malathion	2	2.15	Diazinon	35.3	36.4
Keithane	2	2.16	Ortho Diazinon Insect Spray		
Bonide Systemic Granules			Diazinon		
Disyston			Ortho Diquat Herbicide		
Bonide Systemic Granules			Diquat		
Disyston			Ortho Diquat Herbicide -H/A		
			Diquat		
Boyle-Midway Black Flag Dead Aim Ant & Roach Killer	0.186	0.182	Ortho Flying & Crawling Insect Killer	0.250	0.248
DDVP			Resmethrin	25	24.5
2-(1-Methylethoxy)phenolmethyl- carbamate	0.950	0.930	Ortho Fruit & Vegetable Insect Control	6.5	6.35
Black Flag Flea & Roach Fogger	0.150	0.210	Ortho Funginex Rose Disease Control	0.50	0.60
Precor	0.470	0.512	Triforine	1.00	0.98
DDVP	1.000	1.123	Ortho Hi-Power Indoor Insect Fogger	1.67	1.61
2-(1-Methylethoxy)phenolmethyl- carbamate	0.10	0.092	Fyethrins	14.2	17.0
Black Flag Flea Killer	0.50	0.514	Piperonyl Butoxide	7.15	[9.85]
Resmethrin	2.000	2.300	N-octyl bicyclo heptene dicarboximide	15.0	14.9
Dursban			Ortho Home Orchard Spray		
Black Flag Roach Bait			Captan	0.250	0.230
Baygon			Malathion	8.0	7.85
			Methoxychlor	3.0	3.50
Cadwell & Jones Cadwell & Jones Specialty Fert. 20-10-10 with Dursban	0.476	0.454	Ortho Household Insect Killer		
			Resmethrin		
			Ortho Isotox Insect Killer		
			Acephate		
			Kelthane		
			Ortho Lindane Borer & Leaf Miner Spray		
			Lindane	20	19.8
			Ortho Liquid Sevin		
			Carbaryl	27	27.9
			Ortho Malathion 50 Insect Spray	50	51.6
			Malathion		

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Ortho Orthene Insect Spray			Johnsons No Roach		
Acephate	15.6	15.4	D-trans Allethrin	0.050	0.048
Ortho Orthene Insect & Disease Control			Chlorpyrifos	0.500	0.469
Acephate	4.00	4.10	N-octyl bicyclo heptene dicarboximide	0.400	0.343
Trifluralin	3.25	3.10	Johnston's Hadabug II		
Kelthane	3.00	3.60	Tetramethrin	0.250	0.236
Ortho Outdoor Insect Fogger			Phenothrin	0.143	0.125
Resmethrin	0.250	0.240	Johnston's No-Roach I		
2-Hydroxyethyl-n-octylsulfide	0.950	0.940	Allethrin	0.050	0.054
Ortho Phaltan Rose & Garden Fungicide			Chlorpyrifos	0.500	0.497
Folpet	75	74.5	N-octyl bicyclo heptene dicarboximide	0.400	0.380
Ortho Poison Ivy & Poison Oak Killer			Mr. Destroyer Insect & Roach Killer		
2,4-D	0.70	0.80	Allethrin	0.300	0.330
MCP	0.75	0.81	Phenothrin	0.191	0.185
CIBA-Geigy Corp.			No-Roach Indoor Fogger II		
Bicep			Tetramethrin	0.200	0.190
Atrazine	20.8	20.36	Phenothrin	0.382	0.340
Metolachlor	27.5	27.90	Rite Aid Ant & Roach Killer IV		
CIBA-Geigy Pramitol 25E			Allethrin	0.050	0.047
Prometon	25	25.2	Chlorpyrifos	0.500	0.462
Spectracide Lawn & Garden Insect Control			N-octyl bicyclo heptene dicarboximide	0.400	0.356
Diazinon	25.0	25.3	Rite Aid Disinfectant Spray		
Spectracide Professional Home Pest Control			O-phenylphenol	0.109	0.102
Diazinon	1.0	1.02	N-alkyl dimethyl benzyl ammonium chloride	0.035	0.034
Connecticut Aerosols			N-alkyl dimethyl ethylbenzyl ammonium chloride	0.035	0.034
707 Automatic Indoor Fogger Roach Bomb			Rite Aid Roach Killer IV		
Phenothrin	0.191	0.192	D-trans Allethrin	0.050	0.057
Allethrin	0.300	0.296	Chlorpyrifos	0.500	0.494
707 Automatic Indoor Fogger Roach Bomb			N-octyl bicyclo heptene dicarboximide	0.400	0.406
Phenothrin	0.300	0.310	Spider-Not		
Allethrin	0.191	0.183	Butoxy B-thiocyanodiethyl ether	1.750	1.680
707 Automatic Indoor Fogger Roach Bomb			Time Mist Indoor Fogger-1		
Phenothrin	0.300	0.305	Pyrethrins	0.500	0.509
Allethrin	0.191	0.170	Piperonyl Butoxide, tech.	1.00	0.94
707 Automatic Indoor Fogger Roach Bomb			N-octyl bicyclo heptene dicarboximide	1.67	1.64
Phenothrin	0.300	0.366	Wasp-Not		
Allethrin	0.191	0.214	Butoxy B-thiocyanodiethyl ether	1.75	1.77
707 Automatic Indoor Fogger Roach Bomb			Creative Products Co.		
Phenothrin	0.300	0.326	Ozium Air Sanitizer		
Allethrin	0.191	0.197	Triethylene Glycol	4.4	4.9
707 Flying Insect Killer I			Propylene Glycol	4.4	5.1
Tetramethrin	0.200	0.170	Creative Sales		
Phenothrin	0.191	0.176	Acecap Systemic Insecticide Implants	85	85.9
707 House & Garden Spray			Acephate		
Tetramethrin	0.200	0.201			
Phenothrin	0.191	0.166			

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Dexol Industries			Edsan Insect Killer		
Dexol African Violet Insect Spray			Tetramethrin	0.200	0.193
Tetramethrin	0.0286	*0.0132	Phenothrin	0.191	0.173
Dexol Chloridane 45% Spray	0.0547	0.0613	Edsan No. 89 Disinfectant Deodorant		
Chlordane, tech.	45	44.8	Ortho-phenylphenol	0.176	0.178
Dexol Contact			Para-tertiary amylphenol	0.044	0.047
Aromatic Petroleum Hydrocarbons			Edsan Q-A Disinfectant-Cleaner-Sanit.-Deod.		
Dexol Cygon Systemic Insecticide	80	81.9	N-alkyl dimethyl benzyl ammonium chloride	5.0	5.30
Cygon	23.4	23.8	Edsan Spectrum		
Dexol Dexa-Klor Insect Spray	6.7	7.0	Didecyl dimethyl ammonium chloride	4.5	4.57
Dursban			Edsan Triple D		
Dexol Diazinon Insect Spray	25.0	25.20	N-alkyl dimethyl benzyl ammonium chloride	4.8	5.18
Dexol Maneb Garden Fungicide	80	63.5			
Dexol Red Spider & Mite Spray	0.046	0.042	Estech		
Kelthane	22.5	23.1	Gro-Tone Crabgrass Preventer w/Tupersan	2.3	2.2
Dexol Sevin Liquid			Siduron		
Carbaryl			Gro-Tone Weed Control + Lawn Food	0.58	0.422
Dexol Whitefly & Mealybug Spray	0.100	0.120	2,4-D	0.24	0.200
Methoprene	0.075	0.076	MCPP	0.05	0.039
Pentac	0.050	0.058	Dicamba		
Resmethrin			Gro-Tone Weed Control + Lawn Food	0.58	*0.085
			2,4-D		
Dow Chemical Co.			2-(2 Methyl-4-chlorophenoxy)propionic acid	0.240	*0.072
Dursban 2E			Dicamba	0.05	* trace
Dursban	solution	0.240	Gro-Tone Weed Killer		
Dursban 2E			2,4-D	1.40	1.22
Dursban	solution	0.290	K-Mart Weed & Feed 10-6-4		
Tough Act			2,4-D	1.22	*0.656
N-alkyl dimethyl benzyl ammonium chloride	0.1	0.12	K-Mart Weed & Feed 10-6-4		
N-alkyl dimethyl ethylbenzyl ammonium chloride	0.1	0.12	2,4-D		
			Par-Ex Slow Release Fert. Weed & Feed with IBDU/SCU	1.22	*0.302
E.I. DuPont De Nemours & Co.			2,4-D		
Ammate X-NI	95	95.2	MCPP	0.66	*0.316
Ammonium Sulfamate			Dicamba	0.30	*0.164
			Super K-Gro Weed & Feed	0.06	*0.026
Edsan Chemical Co.			2,4-D	0.55	0.506
Edsan Double D Cleaner & Disinfectant			MCPP	0.25	0.238
N-alkyl dimethyl benzyl ammonium chloride	0.076	[0.133]	Dicamba	0.05	0.050
N-alkyl dimethyl ethylbenzyl ammonium chloride			Surban 10-6-4 Weed & Feed		
Edsan Emulsion Bowl Cleaner	0.076	[0.133]	2,4-D	1.22	*0.420
Hydrogen Chloride	23.00	22.56	Swift Lawn Weeder & Feeder	1.22	*0.141
			2,4-D		
			Terre Lawn Spur Turf Fert. + Crabgrass Preventer		
			Benefin	1.04	0.894
			Vigoro Crabgrass Preventer + Lawn Fert.	0.7	0.635

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Vigoro Crabgrass Preventer w/Benefin			Hyponex Co.		
Benefin	0.62	[1.13]	Hyponex Bug Dart + Plant Food	1.0	0.89
Vigoro Weed & Feed			DiSyston		
2,4-D	0.55	*0.315			
MCPP	0.25	*0.153			
Dicamba	0.05	*0.031	Lebanon Chemical Corp.		
Vigoro Weed & Feed			Greenview Preen Flower & Garden Weed		
2,4-D	0.55	0.468	Preventer		
2-(2-Methyl-4-chlorophenoxy)propionic acid	0.25	0.250	Trifluralin	1.47	1.42
Dicamba	0.05	0.035			
Vigoro Weed Control + Lawn Fert.			Lehn & Fink Prod. Div./Sterling Drug		
2,4-D	0.58	0.540	Lysol Deodorizing Cleaner		
MCPP	0.24	0.252	Alkyl dimethyl benzyl ammonium chloride	2.70	2.94
Dicamba	0.05	0.058	Lysol Toilet Bowl Cleaner		
			Hydrogen Chloride	8.50	8.58
Farnam Co.					
Farnam Killer Kane Kartridges			Lesco		
2,4-D	38.5	38.8	Lesco Oftanol		
			Oftanol	1.51	1.43
FMV Co.			Lesco Oftanol 1.5% Granular	1.5	1.54
Anti-Mildew Paint					
3-Iodo-2-propynyl butyl carbamate	no guar.	0.28			
Clark Storm/Coat Acrylic Stain "Quartz"			Mallinckrodt		
3-Iodo-2-propynylbutylcarbamate	no guar.	1.60	Mallinckrodt Dycarb		
Clark Storm/Coat Linseed Oil Stain Wood			Bendiocarb	76	77.3
Preservative Chestnut Brown					
N-(Trichloroethylthio)phthalimide	not stated	*0			
Grow Consumer Products			Miller Chem. & Fert. Corp./Pratt Gabriel Div.		
Like Magic House Plant Insecticide			Pratt 1% Rotenone Dust or Spray	1.0	1.1
Tetramethrin	0.0286	0.0230	Rotenone		
Phenothrin	0.0547	0.0576	Pratt 5% Sevin Dust	5.0	5.3
Like Magic Whitefly & Mealybug Insecticide			Carbaryl		
Tetramethrin	0.0286	0.0237	Pratt Diazinon 25E Insect Spray	25.0	25.9
Phenothrin	0.0547	0.0630	Diazinon		
			Pratt Liquid Weedaway		
			2,4-D	12.11	13.18
			MCPP	5.85	6.22
H. Krevit & Co.			Dicamba	1.34	1.44
15% Sodium Hypochlorite	approx 15	*8.30	Pratt Methoxychlor-25 Insect Spray	25	25.5
Sodium Hypochlorite			Methoxychlor		
15% Sodium Hypochlorite	approx 15	*10.26	Pratt Mite Spray	18.5	18.2
Sodium Hypochlorite			Kelthane		
15% Sodium Hypochlorite	approx 15	*10.45	Pratt Nocate Systemic Insecticide	1	*0.79
Sodium Hypochlorite			0,0-Diethyl S-[2-(ethylthio)ethyl]-phosphorodithioate		

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Pratt Red Arrow Insect Spray		
Pyrethrins	0.5	0.54
Rotenone	1.5	1.48
Piperonyl Butoxide, tech.	3.0	3.06
Pratt Scalecide		
Petroleum Oil	98	100
Pratt Super D Weedone		
2,4-D	20.3	20.5
Dicamba	1.9	2.0
Pratt Tomato & Vegetable Dust		
Rotenone	0.75	0.94
Copper	7.00	7.65
Pratt Whitefly Spray		
Resmethrin	0.25	0.213
Miller Chem. & Fert. Corp./Science Prod. Div.		
Science Benomyl 50W		
Benomyl	50	49.6
Science Blossom Set		
Beta-naphthoxyacetic acid	0.0042	0.0042
Science Clover Mite & Red Spider Spray		
Keithane	0.25	0.246
MK Laboratories		
McKesson Oil of Citronella		
Oil of Citronella	100	100
R & C Shampoo		
Pyrethrins	0.30	0.33
Piperonyl Butoxide, tech.	3.00	2.66
Rid		
Pyrethrins	0.30	0.278
Piperonyl Butoxide, tech.	3.00	2.95
Mobay Chem. Corp./Agric. Chem. Div.		
Mobay Guthion 50WP		
Guthion	50	49.45
Monsanto Co.		
Monsanto Roundup		
Glyphosate	41.0	40.90
Northeast Packaging		
Agway Wasp & Hornet Jet Spray		
Resmethrin	0.250	0.251

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
NU-Method Pest Control Service		
NU-MRK Ant & Roach Killer Household Insect Spray		
Diazinon	0.500	0.490
Pyrethrins	0.052	0.055
Piperonyl Butoxide, Tech.	0.261	0.258
Nutrico		
Derby's 25-3-5 Fert. + Weedicide		
Dichlorophenoxyacetic Acid	0.684	0.465
2-(2-Methyl-4-chlorophenoxy)propionic acid	0.306	0.249
Dicamba	0.065	0.068
Flower Time Crabgrass Preventer + Lawn Fert.		
Benefin	1.280	1.290
Flower Time Premium Weed & Feed w/Trimec		
2,4-D	0.761	0.771
MCPP	0.341	0.457
Dicamba	0.072	0.103
Nutrico Premium Weed & Feed w/Trimec		
Dichlorophenoxyacetic acid	0.684	0.697
2-(2-Methyl-4-chlorophenoxy)propionic acid		
Dicamba	0.306	0.366
	0.065	0.075
O.M. Scott & Sons		
Scotts Spot Dandelion Control		
2,4,-D	1.66	1.50
Dicamba	0.31	0.40
Scotts Spot Grass & Weed Control		
Total Arsenic	0.70	0.70
Old Fox Chemical		
Old Fox Dacthal 5G		
Dacthal	5	4.7
Old Fox Granular Crab Control		
Siduron	2.3	*1.44
Parrott Agro Industries		
Lucky Strike 48% Chlordane Formula 57		
Chlordane, tech.	48	46.7
Lucky Strike 5% Sevin Dust or Spray		
Carbaryl	5.00	5.20

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Lucky Strike Black Magic For Roses Formula 500			Parrott Multi Purpose Maltos Insecticide Fungicide		
Carbaryl	5.00	*1.48	Malathion	15	15.65
Sulphur	25.0	26.40	Methoxychlor	20	19.30
Pyrethrins	0.05	0.043	Dichloro	1.80	*0.259
Captan	5.00	5.10	Parrott Ready-to-use Maltos Spray		
Lucky Strike Crop Maker Veg. Dust			Pyrethrins	0.02	0.024
Formula 300			Piperonyl Butoxide, tech.	0.20	0.18
Copper	7.00	6.78	Scatter Bait Formula 101		
Rotenone	0.80	0.74	Ortho boric acid	100	100.0
Lucky Strike Cropmaker Vegetable Dust					
Formula 300					
Copper	7.00	6.88	Pet Chemicals		
Lucky Strike D-Ban Roach & Ant Spray			Vapo Total Release Aerosol		
Formula 30			Vapona	6.51	6.40
Pyrethrins	0.052	0.057	2-(1-Methylethoxy)-phenolmethyl- carbamate	1.00	1.04
Chlorpyrifos	0.500	0.530			
Piperonyl Butoxide	0.260	0.280			
Lucky Strike Diazinon 25% Conc. Formula 10					
Diazinon	25	25.1	Pharmaceutical Research Laboratories		
Lucky Strike Diazinon Dust Formula 40			AN-FA-CIDE-S Activator		
Diazinon	4	*3.29	Lactic acid	8.6	9.06
Lucky Strike Malathion 50% Formula 99			AN-FA-CIDE-S Base		
Malathion	50	51.0	Sodium chlorite	1.37	1.44
Lucky Strike Malcap Dust or Spray			Entix Dip		
Formula 488			Pyrethrins	0.33	0.34
Captan	8.00	8.60	Piperonyl Butoxide, tech.	0.67	0.65
Malathion	4.00	3.97	N-octyl bicyclo heptene dicarboximide	1.11	1.10
Methoxychlor	8.00	7.98	Entix Flea Tick Killer		
Lucky Strike Maltos Formula 24			Pyrethrins	0.25	0.26
Pyrethrins	0.02	0.022	Piperonyl Butoxide, tech.	2.45	2.56
Piperonyl Butoxide	0.20	0.184	Quatricide Disinfectant Detergent		
Lucky Strike Metacine Weed Killer Formula 9			N-alkyl ethylbenzyl ammonium chloride	2.25	2.45
2,4-D(isooctyl ester)	19.00	20.60	N-alkyl benzyl ammonium chloride	2.25	2.45
Lucky Strike Rotenone 1% Dust or Spray			Quatricide-Ten Disinfectant Deodorizer		
Formula 1000			Sanitizer		
Rotenone	1.00	1.10	N-alkyl dimethyl benzyl ammonium chloride	5	5.04
Lucky Strike Sevin 22.5% Formula 27			N-alkyl ethylbenzyl ammonium chloride	5	5.04
Carbaryl	22.5	*			
Could not be tested-not mixable					
Lucky Strike Weed Buster & Grass Killer					
Formula 45					
Prometon	1.6	1.80			
Parrott Black Magic For Roses					
Carbaryl	5.00	5.60	Proctor & Gamble		
Captan	5.00	5.40	Comet Cleanser		
Sulphur	25.00	25.20	phosphorus, total	2.9	2.7
Pyrethrins	0.05	0.047	Sodium dodecyl benzenesulfonate	1.90	2.18
Parrott Malathion 50%			Sodium Hypochlorite	0.45	*0.21
Malathion					
Parrott Metacine Weed Killer					
2,4-D(isooctyl ester)	50	50.7			
	19.00	19.10			

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Rhone Poulenc Chem. Co./Agrochem Div. Chippoo 26019 Iprodione	50	49.5
Rigo Co. Kill-Ko Weedone Super BK 32 2,4-D(butoxy ethyl ester) 2,4-D propionic acid(butoxy ethyl ester)	16.7 16.4	17.1 16.8
Rockland Chemical Co. Rockland Captain Garden Fungicide Captain & Related Derivatives Rockland Ferbam Fungicide Ferbam Rockland Liquid Fruit Tree Spray Captain Malathion Methoxychlor Carbaryl Rockland Weed & Grass Killer Prometon 2,4-D(butoxy propyl ester)	50.0 76 11.35 6.00 12.00 3.00 3.50 1.63	51.50 76.4 11.28 4.78 12.32 3.35 3.42 1.54
Savol Bleach Co. Savol Algaecide Alkyl dimethyl benzyl ammonium chloride Savol Bleach Sodium Hypochlorite Savol Shock Treatment Sodium Hypochlorite	10 3.25 12.5	10.5 3.84 *10.2
Schultz Co. Schultz Insecticide Spray Pyrethrins Piperonyl Butoxide	0.02 0.20	0.021 0.183
Science Products Co. Science Hornet & Wasp Bomb Malathion Vapona Science Systemic Insecticide Granules Disyston	3.00 0.46 1	3.60 0.44 0.95

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Seacoast Laboratories Twin Light Diazinon 5% Granular Diazinon Twin Light Garden Spray Malathion Methoxychlor Kelthane Twin Light Liquid Sevin Carbaryl Twin Light Malathion 50% Spray Malathion Twin Light Methoxychlor Spray Methoxychlor	5 15.00 7.50 5.00 21.50 50 25	4.96 15.90 7.59 5.15 21.20 51.0 24.77
Shell Chemical Co. Shell Vendex 50WP Hexakis (2-methyl-2-phenylpropyl)- distannoxane	50	50.1
Swift Agric. Chem. Corp. Vigoro Rose & Flower Spray Pyrethrins Rotenone Methoxychlor Karathane N-octyl bicyclo heptene dicarboximide Vigoro Rotenone Insecticide Rotenone Vigoro Weed & Grass Topkill Sodium cacodylate Dimethylarsinic acid(total arsenic)	0.020 0.100 0.300 0.091 0.300 1.00 1.11	0.025 0.120 0.305 0.104 0.309 1.20 1.25
Top Products Top Disinfectant 450 N-alkyl dimethyl benzyl ammonium chloride N-alkyl dimethyl ethylbenzyl ammonium chloride	2.25 2.25	3.17 3.17
Union Carbide Agric. Prod. Liquid Amizine Amitrol Simazine	4.9 9.9	4.98 10.20
Whitmire Research Labs. Whitmire PT 1200 Resmethrin Resmethrin	1.000	1.025

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Whitmire PT 1300 w/Orthene Acephate	3.0	3.05	Security Super D II Weedone 2,4-D(diethanolamine salts)	13.8	14.0
Whitmire PT 1400	0.48	0.505	Dicamba(diethanolamine salts)	1.4	1.30
Phenothrin	5.0	5.12	Security Tomato & Vegetable Dust Maneb	6.0	4.44
N-octyl bicyclo heptene dicarboximide			Carbaryl	5.0	5.50
Why-Not Industries			Security Zineb Spray Zineb	75	69.4
Mill-o-Cide Aerosol					
Pyrethrins	0.3	0.34			
Piperonyl Butoxide	0.60	0.63			
N-octyl bicyclo heptene dicarboximide	1.00	0.980	Zoecon Corp./Crop Protection Div. Maurik Aquaflo Insecticide Fluvalinate	22.3	22.9
Woolfolk Chemical Works					
Security Benomyl Spray	50	50.6	# Not tested quantitatively		
Benomyl					
Security Blot-Out 2					
Glyphosate	0.96	0.93			
Security Bug Off Dust					
Carbaryl	5.000	5.000			
Security De-Flea					
Pyrethrins	0.06	0.063			
Piperonyl Butoxide, tech.	0.60	0.62			
Security Diazinon Yard & Vegetable Garden Granules					
Diazinon	5.0	4.93			
Security EZE Garden Weed Killer					
Trifluralin	1.75	1.72			
Security Home Fruit Spray Flowable					
Captan	10.9	11.7			
Malathion	8.5	9.5			
Security Indoor Insect Fogger					
2,2-Dichlorovinyl dimethyl phosphate	0.47	0.43			
Pyrethrins	0.4	0.39			
Piperonyl Butoxide, tech.	0.80	0.77			
N-octyl bicyclo heptene dicarboximide	1.55	1.64			
Security Malathion					
Malathion	56.1	55.20			
Security Mealybug & Whitefly Houseplant Spray					
Altosid	0.100	0.118			
Pentac	0.075	0.070			
Resmethrin	0.050	0.052			
Security Pro-Test					
Dursban	0.50	0.52			
Security Rose & Flower Spray					
Pyrethrins	0.02	0.025			
Piperonyl Butoxide, tech.	0.20	0.19			
Security Slug, Snail & Insect Bait					
Metaidehyde	2.0	2.37			
Carbaryl	5.0	4.95			

Table 2. Summary for each manufacturer of number of products tested, number of guarantees for active ingredients, number of samples not meeting guarantee (deficient or excessive), and average percentage of guarantee.

Manufacturer	Number of products tested	Number of guarantees	Number of guarantees deficient(-) or excessive(+)	Average % of guarantee
Agway	22	35	0	101
Alina Chem.	1	4	0	92
American Cyanamid	1	3	0	110
Black Leaf Prod.	9	16	0	102
Bonide Chem.	7	11	1-	106
Boyle-Midway	4	8	0	108
Cadwell & Jones	1	1	0	95
Ced-O-Products	1	2	0	-
Chacon Chem.	1	1	0	110
Chevron	22	31	1+	104
Ciba-Geigy	4	5	0	101
Conn. Aerosols	18	40	0	98
Creative Products	1	2	0	114
Creative Sales	1	1	0	101
Dexol Indust.	10	13	1-	98
Dow Chem.	3	4	0	120
E.I. DuPont deNemours	1	1	0	100
Edsan Chem.	7	10	2+	116
Estech	16	30	13-, 1+	71
Farnam	1	1	0	101
FMC	3	3	1-	-
Grow Consumer Prod.	2	4	0	96
H. Krevit	3	3	3-	65
Hyponex	1	1	0	89
Lebanon Chem.	1	1	0	97
Lehn & Fink	2	2	0	105
Lesco	2	2	0	99
Mallinckrodt	1	1	0	102
Miller/Pratt Gabriel	12	18	1-	103
Miller/Science Prod.	3	3	0	100
MK Laboratories	3	5	0	98
Mobay Chem.	1	1	0	99
Monsanto	1	1	0	100
Northeast Packaging	1	1	0	100
NU-Method Pest Control	1	3	0	101
Nutrico	4	10	0	107
O.M. Scott & Sons	2	3	0	107
Old Fox Chem.	2	2	1-	78
Parrott Agro Indust.	21	36	4-	97
Pet Chem.	1	2	0	101
Pharmacal Research Labs.	6	11	0	103
Proctor & Gamble	1	3	1-	84
Rhone-Poulenc	1	1	0	99
Rigo	1	2	0	102
Rockland Chem.	4	8	1-	99
Savol Bleach	3	3	1-	102
Schultz	1	2	0	98
Science Prod.	2	3	0	104
Seacoast Labs.	5	7	0	101
Shell Chem.	1	1	0	100
Swift Agric. Chem.	3	7	0	114
Top Prod.	1	2	0	141
Union Carbide	1	2	0	102
Whitmire Res. Labs.	3	4	0	103
Why-Not Indust.	1	3	0	105
Woolfolk Chem.	16	27	2-	102
Zoecon	1	1	0	103
Total	249	408		



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